

# Glutaric acid, 3,4-dimethylcyclohexyl 1,1,1-trifluoroprop-2-yl ester

Inchi:	InChI=1S/C16H25F3O4/c1-10-7-8-13(9-11(10)2)23-15(21)6-4-5-14(20)22-12(3)16(17,18
InchiKey:	RBZQFKVTZURINZ-UHFFFAOYSA-N
Formula:	C16H25F3O4
SMILES:	CC1CCC(OC(=O)CCCC(=O)OC(C)C(F)(F)F)CC1C
Mol. weight [g/mol]:	338.36

## Physical Properties

Property code	Value	Unit	Source
gf	-959.00	kJ/mol	Joback Method
hf	-1451.89	kJ/mol	Joback Method
hfus	35.05	kJ/mol	Joback Method
hvap	65.20	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.019		Crippen Method
mvol	245.630	ml/mol	McGowan Method
pc	1444.64	kPa	Joback Method
rinpol	1737.00		NIST Webbook
rinpol	1737.00		NIST Webbook
tb	722.41	K	Joback Method
tc	909.80	K	Joback Method
tf	402.49	K	Joback Method
vc	0.948	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	759.30	J/mol×K	722.41	Joback Method
cpg	777.29	J/mol×K	753.64	Joback Method
cpg	794.16	J/mol×K	784.87	Joback Method
cpg	809.93	J/mol×K	816.10	Joback Method
cpg	824.62	J/mol×K	847.33	Joback Method
cpg	838.24	J/mol×K	878.56	Joback Method
cpg	850.82	J/mol×K	909.80	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405427&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405427&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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